

L Number	Hits	Search Text	DB	Time stamp
1	485	(vascular or graft) same flange	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 07:41
2	2796	blom\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 07:42
3	63	blom-e\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 07:52
4	0	551198.URPN.	USPAT	2003/08/22 07:46
5	6	5300119.URPN.	USPAT	2003/08/22 07:50
6	10	("4246897" "4291690" "4435853" "4596579" "4614516" "4623348" "4653660" "4911716" "5078743" "5090420").PN.	USPAT	2003/08/22 07:50
7	17	flexible near3 flange and 623/\$.ccls. and (vessel or artery or vein)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 07:56
8	200	(folding or fold or folded) near3 flange and (vessel or artery or vein)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 07:58
9	55	(folding or fold or folded) near3 flange and ((blood adj vessel) or artery or vein)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 08:06
10	164	(flexible) near3 flange and ((blood adj vessel) or artery or vein)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 08:07

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1	US 3903270		USP	19750902	5	
2	US 4145337		USP	19790320	18	
3	FR 2475896		DER	19810821	4	
4	US 4364393		USP	19821221	10	
5	US 4479933		USP	19841030	4	
6	SU 1123653		DER	19841115	NA	
7	SU 1128918		DER	19841215	NA	
8	US 4638800		USP	19870127	13	
9	US 4784137		USP	19881115	11	
10	US 4788966		USP	19881206	14	
11	US 4817847		USP	19890404	11	
12	US 4869268		USP	19890926	14	
13	US 4976735		USP	19901211	9	
14	US 5047039		USP	19910910	15	
15	US 5053047		USP	19911001	9	
16	US 5068221		USP	19911126	8	
17	SU 1708313		DER	19920130		
18	US 5156613		USP	19921020	8	
19	US 5166192		USP	19921124	8	
20	US 5197649		USP	19930330	17	
21	US 5199590		USP	19930406	9	
22	SU 1806624		DER	19930407		
23	SU 1806586		DER	19930407		
24	US 5207670		USP	19930504	11	
25	US 5211683		USP	19930518	33	
26	US 5222976		USP	19930629	9	
27	US 5242456		USP	19930907	23	
28	US 5254126		USP	19931019	18	
29	US 5256149		USP	19931026	19	
30	EP 568774		EPO	19931110		
31	EP 568774		DER	19931110		
32	US 5261920		USP	19931116	9	
33	JP 0601493		JPO	19940125		
34	US 5304220		USP	19940419	38	
35	US 5304190		USP	19940419	13	
36	US 5309927		USP	19940510	12	
37	US 5314435		USP	19940524	12	
38	DE 4243411		DER	19940623		

US-PAT-NO: 5053047

DOCUMENT-IDENTIFIER: US 5053047 A

TITLE: Suture devices particularly useful in endoscopic surgery and methods of suturing

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Detailed Description Text - DETX (3):

The use of suture device 20 is illustrated in FIGS. 2 and 3 wherein a section of tissue 30 is to be joined to a section of tissue 32. The tissue can be of any configuration from any anatomical part or organ of the body; however, the

suture device 20 is particularly useful for various anastomosis or approximating procedures such as vascular anastomosis, bowel anastomosis, closure of anatomical or non-anatomical structures, tuboplasty and skin closure. Due to the smoothly angled orientation of the whisker-like filaments

28, the suture device can penetrate through the tissue in only the forward direction and cannot be moved rearwardly. The sharp distal end 24 is moved to penetrate through tissue section 30 at a position spaced from the end of the tissue section in a manner similar to movement of a suture needle and is thereafter moved to penetrate through tissue section 32 at a position spaced from the end of tissue section 32. The suture device is manipulated with a conventional needle holder in a manner similar to a suture needle and can be easily utilized during endoscopic surgery; and, once the suture device has been

positioned as illustrated in FIG. 2, the distal end is grasped and pulled thereby approximating the ends of the tissue sections 30 and 32 as illustrated

in FIG. 3, it being noted that the enlarged bulbous proximal end 26 prevents the suture device from pulling through tissue section 30 since the proximal end

has a dimension in at least one direction transverse to the body member greater

than the transverse dimension of the body member. Once the suture device is in

the position illustrated in FIG. 3 with the ends of the tissue sections approximated, the portion of the suture device protruding from tissue section

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9	US 4784137		USP:19881115	11	
10	US 4788966		USP:19881206	14	
11	US 4817847		USP:19890404	11	
12	US 4869268		USP:19890926	14	
13	US 4976735		USP:19901211	9	
14	US 5047039		USP:19910910	15	
15	US 5053047		USP:19911001	9	
16	US 5068221		USP:19911126	8	
17	SU 1708313		DER:19920130	1	
18	US 5156613		USP:19921020	8	
19	US 5166192		USP:19921124	8	
20	US 5197649		USP:19930330	17	
21	US 5199550		USP:19930406	9	
22	SU 1806624		DER:19930407	NA	
23	SU 1806586		DER:19930407	1	
24	US 5207670		USP:19930504	11	
25	US 5211683		USP:19930518	33	
26	US 5222976		USP:19930613	12	
27	US 5242456		USP:19930907	23	
28	US 5254126		USP:19931019	18	
29	US 5256149		USP:19931026	19	
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31	EP 568774		DER:19931110		
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35	US 5304190		USP:19940419	13	
36	US 5309927		USP:19940510	12	
37	US 5314435		USP:19940524	12	
38	DE 4243411		DER:19940623		

US-PAT-NO: 5222976

DOCUMENT-IDENTIFIER: US 5222976 A

TITLE: Suture devices particularly useful in endoscopic surgery

----- KWIC -----

Detailed Description Text - DETX (3):

The use of suture device 20 is illustrated in FIGS. 2 and 3 wherein a section of tissue 30 is to be joined to a section of tissue 32. The tissue can be of any configuration from any anatomical part or organ of the body; however, the suture device 20 is particularly useful for various anastomosis or approximating procedures such as vascular anastomosis, bowel anastomosis, closure of anatomical or non-anatomical structures, tuboplasty and skin closure. Due to the smoothly angled orientation of the whisker-like filaments 28, the suture device can penetrate through the tissue in only the forward direction and cannot be moved rearwardly. The sharp distal end 24 is moved to penetrate through tissue section 30 at a position spaced from the end of the tissue section in a manner similar to movement of a suture needle and is thereafter moved to penetrate through tissue section 32 at a position spaced from the end of tissue section 32. The suture device is manipulated with a conventional needle holder in a manner similar to a suture needle and can be easily utilized during endoscopic surgery; and, once the suture device has been positioned as illustrated in FIG. 2, the distal end is grasped and pulled thereby approximating the ends of the tissue sections 30 and 32 as illustrated in FIG. 3, it being noted that the enlarged bulbous proximal end 26 prevents the suture device from pulling through tissue section 30 since the proximal end has a dimension in at least one direction transverse to the body member greater than the transverse dimension of the body member. Once the suture device is in the position illustrated in FIG. 3 with the ends of the tissue sections approximated, the portion of the suture device protruding from tissue section 32 is severed as shown at line 34 leaving the suture device in the tissue.